

WHAT IS CLAIMED IS:

1. A blood test method comprising the steps of:
 - (a) centrifuging a mammalian blood sample into a
5 plasma and blood cells;
 - (b) removing buffy coats from said blood cells to
obtain red blood cells containing solutes confined
therewithin;
 - (c) washing said red blood cells with a buffered
10 physiological saline solution and isolating said washed
blood cells;
 - (d) mixing said washed red blood cells with a
buffered physiological saline solution to obtain a
suspended liquid;
 - 15 (e) centrifuging said suspended liquid to remove a
supernatant and to obtain a red blood layer;
 - (f) mixing said red blood layer with a hypertonic
solution and maintaining the resulting suspension at a
temperature of 25 to 40°C for a period of time sufficient
20 for the solutes confined in the red blood cells to
penetrate into the hypertonic solution;
 - (g) centrifuging the suspension to obtain a
supernatant containing the solutes; and
 - (h) measuring the supernatant for at least one
25 factor selected from a glucose concentration, a pyruvic
acid concentration, a lactic acid concentration and an
oxidation-reduction potential.
2. A blood test method as claimed in claim 1, wherein
30 step (a) comprises centrifuging the venous blood sample at
a force of 130×g to 200×g for 5 to 10 minutes.
3. A blood test method as claimed in claim 1, wherein
35 step (b) comprises mixing the blood cells with a
sedimentation agent, and centrifuging the resulting

mixture at a force of 800×g to 1,200×g for 7 to 12 minutes.

4. A blood test method as claimed in claim 1, wherein
step (c) comprises mixing said red blood cells with a
5 phosphate buffered physiological saline solution, and
centrifuging the resulting mixture at a force of 130×g to
200×g for 5 to 10 minutes.

5. A blood test method as claimed in claim 1, wherein
10 step (d) comprises mixing said washed red blood cells with
a phosphate buffered physiological saline solution in an
amount so that the suspended liquid has a hematocrit value
of 40 to 50 %.

15 6. A blood test method as claimed in claim 1, wherein
step (e) comprises centrifuging the suspended liquid at a
force of 130×g to 200×g for 5 to 10 minutes, and removing
the supernatant.

20 7. A blood test method as claimed in claim 1, wherein
step (f) comprises mixing the red blood layer with a 5 to
10 % by weight saline solution and maintaining the
resulting mixture at a temperature of 35 to 38°C for 7 to
15 minutes.

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8. A blood test method as claimed in claim 1, wherein
step (g) comprises centrifuging the suspension at a force
of 1,500×g to 2,000×g for 7 to 12 minutes.

30 9. A blood test method as claimed in claim 1, wherein
step (h) comprises measuring the supernatant for at least
one factor selected from a glucose concentration, a
pyruvic acid concentration and a lactic acid concentration
using an automatic biochemical analyzer.

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10. A blood test method as claimed in claim 1, wherein step (h) comprises measuring the supernatant for an oxidation-reduction potential using a potentiometer.